

# Low-Peak™ LP-CC Class CC 600Vac/300Vdc, 1/2-30A time-delay fuses

RoHS



## Catalog numbers (amps)

|              |              |              |             |          |
|--------------|--------------|--------------|-------------|----------|
| LP-CC-1/2    | LP-CC-1-1/2  | LP-CC-3      | LP-CC-6     | LP-CC-12 |
| LP-CC-6/10   | LP-CC-1-6/10 | LP-CC-3-2/10 | LP-CC-6-1/4 | LP-CC-15 |
| LP-CC-8/10   | LP-CC-1-8/10 | LP-CC-3-1/2  | LP-CC-7     | LP-CC-20 |
| LP-CC-1      | LP-CC-2      | LP-CC-4      | LP-CC-7-1/2 | LP-CC-25 |
| LP-CC-1-1/8  | LP-CC-2-1/4  | LP-CC-4-1/2  | LP-CC-8     | LP-CC-30 |
| LP-CC-1-1/4  | LP-CC-2-1/2  | LP-CC-5      | LP-CC-9     |          |
| LP-CC-1-4/10 | LP-CC-2-8/10 | LP-CC-5-6/10 | LP-CC-10    |          |

## Carton quantity:

| Amp rating | Carton qty. |
|------------|-------------|
| 1/4-30     | 10          |

## Catalog symbol:

- LP-CC-(amp)

## Description:

Ultimate protection Class CC current-limiting, time-delay fuses. Time-delay – 12 seconds (minimum) at 200% of rated current.

## Specifications:

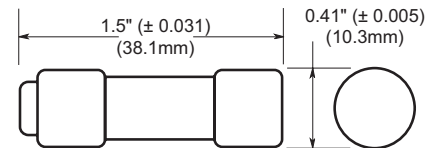
### Ratings

- Volts
  - 600Vac,
  - 300Vdc (1/2-2-8/10A, 20-30A)
  - 150Vdc (3-15A)
- Amps 1/2-30A
- IR
  - 200kA Vac RMS Sym.
  - 20kA Vdc

### Agency information

- UL® Listed Class CC, Std. 248-4, Guide JDDZ, File E4273
- CSA® Certified; Class 1422-02, File 53787
- CE
- RoHS compliant (20-30A)

## Dimensions - in (mm)



## Features:

- 200kA interrupting rating complies with NEC® Section 110.9 for today's large capacity systems.
- Fast short-circuit protection and dual-element, time-delay performance provide ultimate protection.
- Reduces existing fuse inventory by up to 33% when upgrading to Low-Peak fuses.
- Consistent 2:1 ampacity ratios for all Low-Peak fuses make selective coordination easy.
- Time-delay characteristic avoids unwanted fuse openings from surge currents while fast response speed under short-circuit conditions provides a high degree of current limitation.
- Current-limitation protects downstream components against damaging thermal and magnetic effects of short-circuit currents.
- A superior, all-purpose, space-saving branch circuit fuse that meets most protection requirements up to 30A.
- Very compact, with a physical size only 1 3/32" x 1 1/2" (10.3 x 38.1mm) with rejection tip.
- Proper sizing can provide "no damage" Type 2 coordinated protection for NEMA and IEC motor controllers.
- Can be used where either a time-delay or a fast-acting fuse is needed, making selection easier and reducing spare fuse inventories for substantial cost reduction.
- Superior protection for small horsepower motor circuits.

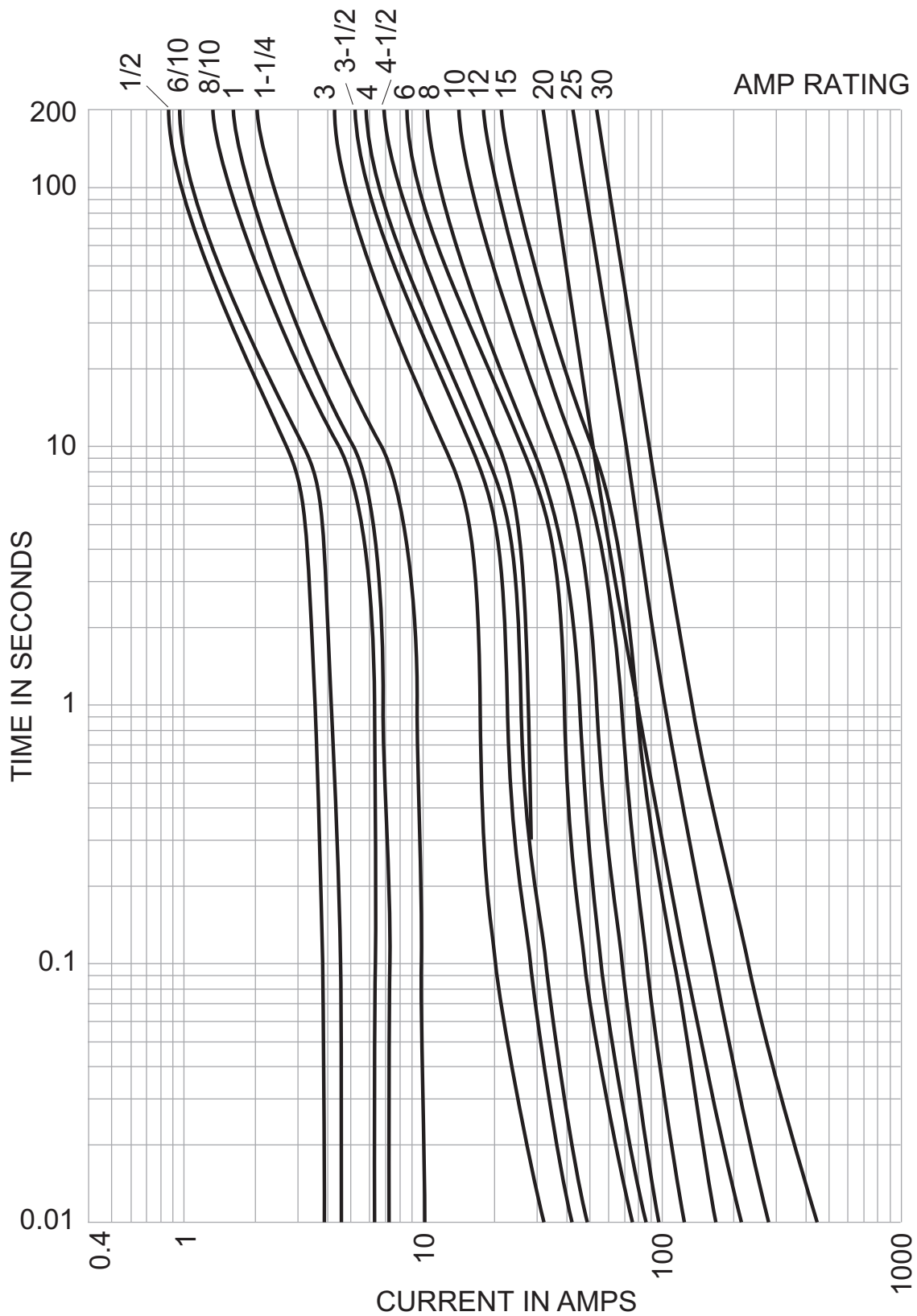
## Recommended fuse blocks and holders:

| Fuse amps                  | 1-Pole    | 2-Pole    | 3-Pole      |
|----------------------------|-----------|-----------|-------------|
| <b>Modular open blocks</b> |           |           |             |
| 0-30                       | BCM603-1_ | BCM603-2_ | BCM603-3_   |
| <b>DIN-Rail holders</b>    |           |           |             |
|                            | CHCC1D_   | CHCC2D_   | CHCC3D_     |
| 0-30                       | —         | —         | OPM-NG_     |
|                            | —         | —         | OPM-1038_   |
|                            | —         | —         | OPM-1038_SW |
| <b>Panel mount holders</b> |           |           |             |
| 0-30                       | HPS       | —         | —           |
|                            | HPF       | —         | —           |
| <b>In-line holders</b>     |           |           |             |
| 0-30                       | —         | HEY       | —           |
|                            | HEZ       | —         | —           |

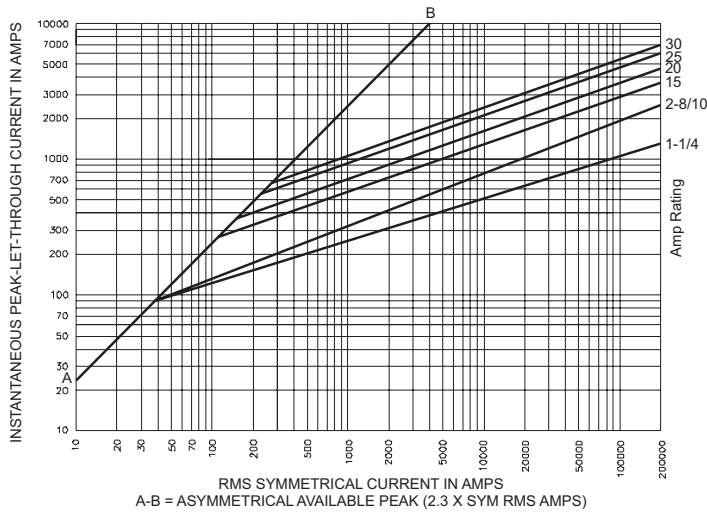
For additional information on Class CC fuse blocks and holders, see data sheets:

- Modular open blocks # 10241 (BCM)
- DIN-Rail holders No. 3185 (CHCC), No. 1109 (OPM), No. 1102 (OPM-1038), No. 1103 (OPM-1038\_SW)
- Panel mount holders No. 2113 (HPS), No. 2114 (HPF)
- In-line holders No. 2126 (HEY), No. 2130 (HEZ)

**Time-current curves - average melt:**



## Current-limitation curves:



Current-limiting effects:

| Prospective<br>S.C.C. | Let-through current<br>(apparent RMS symmetrical vs. fuse rating) |         |      |      |      |      |
|-----------------------|-------------------------------------------------------------------|---------|------|------|------|------|
|                       | 1-1/4A                                                            | 2-8/10A | 15A  | 20A  | 25A  | 30A  |
| 1000                  | 100                                                               | 135     | 240  | 305  | 380  | 435  |
| 3000                  | 140                                                               | 210     | 350  | 440  | 575  | 580  |
| 5000                  | 165                                                               | 255     | 420  | 570  | 690  | 710  |
| 10,000                | 210                                                               | 340     | 540  | 700  | 870  | 1000 |
| 20,000                | 260                                                               | 435     | 680  | 870  | 1090 | 1305 |
| 30,000                | 290                                                               | 525     | 800  | 1030 | 1300 | 1520 |
| 40,000                | 315                                                               | 610     | 870  | 1150 | 1390 | 1700 |
| 50,000                | 340                                                               | 650     | 915  | 1215 | 1520 | 1820 |
| 60,000                | 350                                                               | 735     | 1050 | 1300 | 1650 | 1980 |
| 80,000                | 390                                                               | 785     | 1130 | 1500 | 1780 | 2180 |
| 100,000               | 420                                                               | 830     | 1210 | 1600 | 2000 | 2400 |
| 200,000               | 525                                                               | 1100    | 1600 | 2000 | 2520 | 3050 |

NOTE: To calculate  $I_p$  ( $I_{peak}$ ) multiply  $I_{RMS}$  value by 2.3.

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